

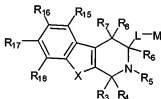
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing Of Claims

1-9. (Cancelled)

10. (Currently amended). A compound ~~comprising~~ of the formula:



wherein

~~R₃ and R₄ are each independently selected from a group of substituents comprising a moiety attached to the ring carbon selected from the group consisting of hydrogen, alkyl, aminoalkyl, oxaalkyl, aromatic ring, cyano, a carbonyl group, and a thiocarbonyl group, or where R₃ and R₄ are taken together to form a ring, in each case unsubstituted or further substituted through available valencies;~~

~~R₅ and R₆ are each independently selected from a group of substituents comprising a moiety attached to the ring nitrogen selected from the group consisting of hydrogen, alkyl, aminoalkyl, oxaalkyl, aromatic ring, cyano, a carbonyl group, a thiocarbonyl group and a sulfonyl group, or where R₅ and R₆ are taken together to form a 3, 4, 5, 6, 7 or 8 membered ring, in each case unsubstituted or further substituted through available valencies;~~

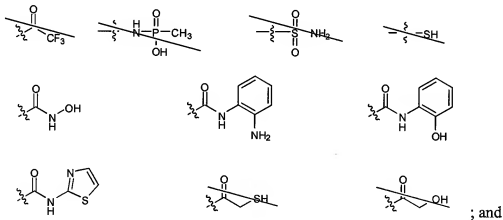
~~R₇ and R₈ are each independently selected from a group of substituents comprising a moiety attached to the ring carbon selected from the group consisting of hydrogen, alkyl, aminoalkyl, oxaalkyl, aromatic ring, alkoxy, aryloxy, alkylamino, arylamino, alkylthio, arylthio, acylamino, sulfonylamino, nitro, cyano, halogen, hydroxyl, thiol, amino, a carbonyl group, and a~~

thiocarbonyl group, or where R_7 and R_8 are taken together to form a substituent comprising a moiety attached to the ring carbon selected from the group consisting of a carbonyl, thiocarbonyl, imine, alkene and ring, or where R_6 and R_7 are taken together to form a 3, 4, 5, 6, 7 or 8 membered ring, in each case unsubstituted or further substituted through available valencies;

R_{15} , R_{16} , R_{17} and R_{18} are each independently selected from a group of substituents comprising a moiety attached to the ring carbon selected from the group consisting of hydrogen, alkyl, aminoalkyl, oxaalkyl, aromatic ring, alkoxy, aryloxy, alkylamino, arylamino, alkylthio, arylthio, acylamino, sulfonylamino, nitro, cyano, halogen, hydroxyl, thiol, amino, a carbonyl group, and a thiocarbonyl group, except where R_{15} and R_{16} , R_{16} and R_{17} , and/or R_{17} and R_{18} are taken together to form a 3, 4, 5, 6, 7 or 8 membered ring, in each case unsubstituted or further substituted through available valencies;

X is selected from the group consisting of O, S, and NR_{14} , where R_{14} comprises a moiety attached to the nitrogen is selected from the group consisting of hydrogen, hydroxyl, alkyl, aromatic ring, alkoxy, aryloxy, a carbonyl group, a thiocarbonyl group, and a sulfonyl group, in each case unsubstituted or further substituted through available valencies;

M is selected from the group consisting of:



L is a leader group moiety separating the M substituent from the carbon ring atom alpha to L, wherein the number of backbone atoms of the leader group moiety separating the M substituent from the carbon ring atom alpha to L is between 3 and 12.

[illegible]

R₂₃ is (C₁₋₁₀)alkyl.

16. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents ~~where the moiety attached to the ring carbon is a substituted or unsubstituted~~ consisting of C₁-C₁₀ alkyl, aminoalkyl, ~~or~~ and oxaalkyl.

17. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents where the moiety attached to the ring carbon is a substituted or unsubstituted selected from the group consisting of branched C₁-C₁₀ alkyl, aminoalkyl, ~~or~~ and oxaalkyl.

18. (Currently amended). A compound according to claim 17, wherein the C₁-C₁₀alkyl, aminoalkyl, or oxaalkyl ~~further comprises~~ is substituted with a substituent selected from the group consisting of an alkyl, aromatic ring, cyano group, halogen, and carbonyl group.

19. (Currently amended). A compound according to claim 17, wherein the C₁-C₁₀ alkyl, aminoalkyl, or oxaalkyl ~~further comprises a substituted or unsubstituted~~ is substituted with an aromatic ring.

20. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents where the moiety attached to the ring carbon is a substituted or unsubstituted an aromatic ring.

21. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents where the moiety attached to the ring carbon is a substituted or unsubstituted a phenyl ring.

22. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents where the moiety attached to the ring carbon is a substituted or unsubstituted is a heteroaryl.

23. (Currently amended). A compound according to claim 10, wherein at least one of R₃ and R₄ is selected from a group of substituents where the moiety attached to the ring carbon is a substituted or unsubstituted a heteroaryl selected from the group consisting of furan, thiofuran, pyrrole, pyrazole, isoimidazole, triazole, isoxazole, oxazole, thiazole, isothiazole, oxadiazole,

oxatriazole, pyridine, pyridazine, pyrimidine, pyrazine, triazine, benzofuran, isobenzofuran, benzothiofuran, isobenzothiofuran, indole, benzodioxolane, isobenzazole, quinoline, isoquinoline, cinnoline, quinazoline, naphthyridine, and pyridopyridine.

24. (Withdrawn). A compound according to claim 10, wherein R_3 and R_4 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered ring.

25. (Withdrawn). A compound according to claim 10, wherein R_3 and R_4 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 member alicyclic ring.

26. (Currently amended). A compound according to claim 10, wherein at least one of R_3 and R_4 is selected from a group of substituents ~~where the moiety attached to the ring carbon is selected from the group~~ consisting of an aldehyde, amide, ester, ketone, and carboxylic acid, ~~each unsubstituted or further substituted through available valencies.~~

27. (Withdrawn). A compound according to claim 10, wherein R_5 and R_6 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered ring.

28. (Withdrawn). A compound according to claim 10, wherein R_5 and R_6 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered alicyclic ring.

29. (Withdrawn). A compound according to claim 10, wherein R_6 and R_7 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered ring.

30. (Withdrawn). A compound according to claim 10, wherein R_6 and R_7 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered alicyclic ring.

31. (Withdrawn). A compound according to claim 10, wherein R_7 and R_8 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered ring.

32. (Withdrawn). A compound according to claim 10, wherein R_7 and R_8 are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered alicyclic ring.

33. (Withdrawn). A compound according to claim 10, wherein R_7 and R_8 are taken together to form an imine having a substituent R_9 on the imine nitrogen selected from the group consisting of hydrogen, alkyl, aminoalkyl, oxaalkyl, aromatic ring, alkoxy, aryloxy, alkylamino, arylamino, alkylthio, arylthio, acylamino, and sulfonylamino, each unsubstituted or further substituted through available valencies.

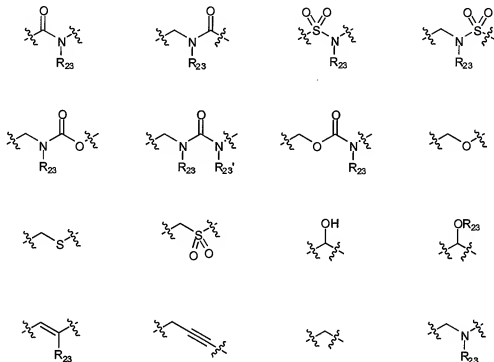
34. (Withdrawn). A compound according to claim 10, wherein R_7 and R_8 are taken together to form an alkene substituent having the formula $=CR_{10}R_{11}$ where R_{10} and R_{11} are each independently selected from a group of substituents consisting of hydrogen, alkyl, aryl, alkylamino, arylamino, sulfonylamino, a carbonyl group, thiocarbonyl, and sulfonyl or where R_{10} and R_{11} are taken together to form an alkene, each unsubstituted or further substituted through available valencies.

35. (Withdrawn). A compound according to claim 10, wherein R_7 and R_8 are taken together to form an alkene substituent having the formula $=CR_{10}R_{11}$ where R_{10} and R_{11} are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered ring, each unsubstituted or further substituted through available valencies.

36. (Withdrawn). A compound according to claim 35 wherein R_{10} and R_{11} are taken together to form a substituted or unsubstituted 3, 4, 5, 6, 7 or 8 membered alicyclic ring.

37 (Cancelled).

38. (Withdrawn). A compound according to claim 10, wherein a portion of L that is attached to the carbon ring atom alpha to L comprises a moiety selected from the group consisting of:

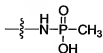


where R_{23} is a C_{1-10} alkyl.

39. (Withdrawn). A compound according to claim 10, wherein M is



40. (Withdrawn). A compound according to claim 10, wherein M is



41. (Withdrawn). A compound according to claim 10, wherein M is



42. (Withdrawn). A compound according to claim 10, wherein M is



43. (Previously presented). A compound according to claim 10, wherein M is



44. (Previously presented). A compound according to claim 10, wherein M is



45. (Previously presented). A compound according to claim 10, wherein M is



46. (Previously presented). A compound according to claim 10, wherein M is



47. (Withdrawn). A compound according to claim 10, wherein M is



48. (Withdrawn). A compound according to claim 10, wherein M is

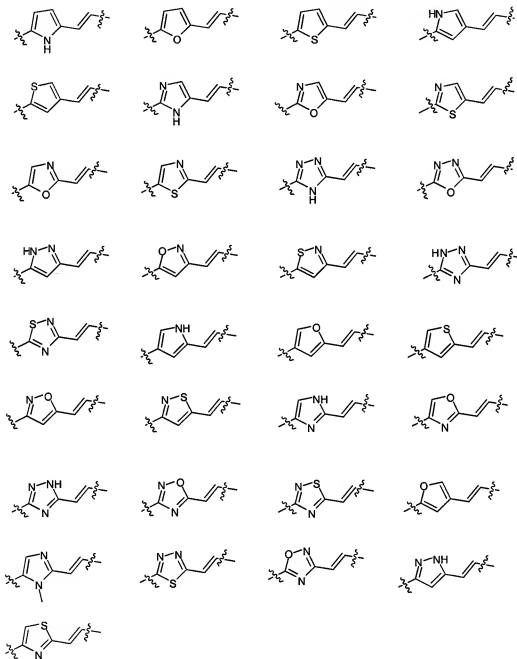


49. (Withdrawn). A compound according to claim 10, wherein the number of backbone atoms of the leader group moiety separating the M substituent from the carbon ring atom alpha to L is between 3 and 9.

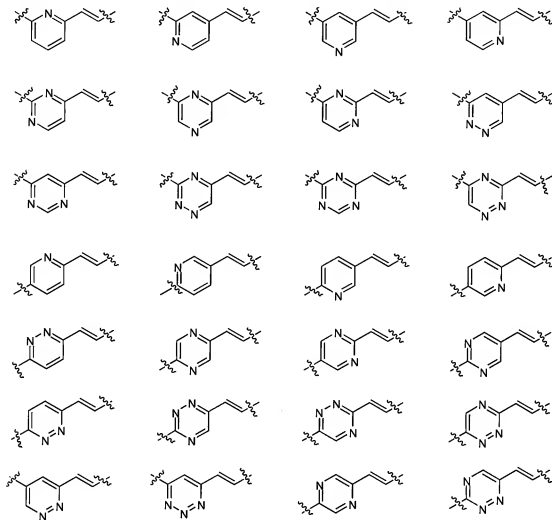
50. (Withdrawn). A compound according to claim 10, wherein the number of backbone atoms of the leader group moiety separating the M substituent from the carbon ring atom alpha to L is between 4 and 8.

51-54. (Cancelled).

55. (Withdrawn) A compound according to claim 10, wherein a portion of the backbone atoms of L are substituted to form a member of the group consisting of

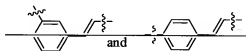


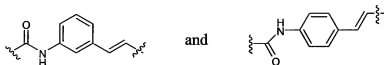
56. (Withdrawn) A compound according to claim 10, wherein a portion of the backbone atoms of L are substituted to form a member of the group consisting of



57-64. (Cancelled).

65. (Currently amended). A compound according to claim 10, wherein L a portion of L that is attached to M is selected from the group consisting of





66. (Cancelled)

67. (Withdrawn). A compound according to claim 10, wherein a portion of the backbone atoms of L forms a member selected from the group consisting of $-(CH_2)_n-$, where n is an integer from 1 to 10; $-CH(CH_3)-$, $-CH(CH_3)CH_2-$, $-CH_2CH(CH_3)-$, $-CH(CH_3)CH_2CH_2-$, $-CH_2CH(CH_3)CH_2-$, $-CH_2CH_2CH(CH_3)-$, $-CH(CH_3)CH_2CH_2CH_2-$, $-CH_2CH(CH_3)CH_2CH_2-$, $-CH_2CH_2CH(CH_3)CH_2-$, $-CH_2CH_2CH_2CH(CH_3)-$, $-CH(CH_3)CH_2CH_2CHCH_2-$, $-CH_2CH(CH_3)CH_2CH_2CH_2-$, $-CH_2CH_2CH(CH_3)CH_2CH_2-$, $-CH_2CH_2CH_2CH(CH_3)CH_2-$, $-CH_2CH_2CH_2CH_2CH(CH_3)-$, $-CH(CH_2CH_3)-$, $-CH(CH_2CH_3)CH_2-$, $-CH_2CH(CH_2CH_3)-$, $-CH(CH_2CH_3)CH_2CH_2-$, $-CH_2CH(CH_2CH_3)CH_2-$, $-CH_2CH_2CH(CH_2CH_3)-$, $-CH(CH_2CH_3)CH_2CH_2CH_2-$, $-CH_2CH(CH_2CH_3)CH_2CH_2-$, $-CH_2CH_2CH(CH_2CH_3)CH_2-$, $-CH_2CH_2CH_2CH(CH_2CH_3)CH_2-$, $-CH(CH_2CH_3)CH_2CH_2CH_2CH_2-$, $-CH_2CH(CH_2CH_3)CH_2CH_2CH_2-$, $-CH_2CH_2CH_2CHCH(CH_2CH_3)-$, $-CH=CH-$, $-CH=CHCH_2-$, $-CH_2CH=CH-$, $-CH=CHCHCH_2-$, $-CH_2CH=CHCH_2-$, $-CH_2CH_2CH=CH-$, $-CH=CHCH_2CH_2CH_2-$, $-CH_2CH=CHCHCH_2CH_2CH_2-$, $-CH_2CH_2CH=CHCH_2CH_2-$, $-CH_2CH_2CH_2CH=CHCH_2-$, $-CH_2CH_2CH_2CHCH=CH-$, $-C(CH_3)=CH-$, $-CH=C(CH_3)-$, $-C(CH_3)=CHCH_2-$, $-CH=C(CH_3)CH_2-$, $-CH=CHCH(CH_3)-$, $-CH(CH_3)CH=CH-$, $-CH_2C(CH_3)=CH-$, $-CH_2CH=C(CH_3)-$, $-CH=CHCH=CH-$, $-CH=CHCH=CHCH_2-$, $-CH_2CH=CHCH=CH-$, $-CH=CHCH_2CH=CH-$, $-CH=CHCH=CHCH_2CH_2-$, $-CH=CHCH_2CH=CHCH_2-$, $-CH=CHCH_2CH_2CH=CH-$, $-CH_2CH=CHCH=CHCH_2-$, $-CH_2CH=CHCH_2CH=CH-$, $-CH_2CH_2CH=CHCH=CH-$, $-CH=C(CH_3)CH=CH-$, $-CH=CHC(CH_3)=CH-$, $-CH=CHCH=C(CH_3)-$, $-C\equiv C-$, $-C\equiv CCH_2-$, $-CH_2C\equiv C-$, $-C\equiv CCH(CH_3)-$, $-CH(CH_3)C\equiv C-$, $-C\equiv CCH_2CH_2-$, $-CH_2C\equiv CCH_2-$, $-CH_2CH_2C\equiv C-$, $-C\equiv CCH(CH_3)CH_2-$, $-C\equiv CCH_2CH(CH_3)-$, $-CH(CH_3)C\equiv CCH_2-$, $-CH_2C\equiv CCH(CH_3)-$, $-CH(CH_3)CH_2C\equiv C-$,

-CH₂CH(CH₃)C≡C-, -C≡CCH=CH-, -CH=CHC≡C-, -C≡CC≡C-, -C≡CCH₂CH₂CH₂-,
-CH₂CH₂CH₂C≡C-, -C≡CCH₂CH₂CH₂CH₂-, -CH₂CH₂CH₂CH₂C≡C-, -C≡CCH=CHCH=CH-,
-CH=CHC≡C-CH=CH-, -CH=CHCH=CHC≡C-, -C(CH₃)=CHC≡C-, -CH=C(CH₃)C≡C-,
-C≡CC(CH₃)=CH-, and -C≡CCH=C(CH₃)-.